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Cover: A tentacled snake (*Erpeton tentaculatum*) under the scanning electron microscope revealing the unusual pair of scaled appendages on the snout. Tentacled snakes are fully aquatic and prey almost exclusively on fish. In this issue Catania and colleagues (pp. 359–367) investigate the function of the tentacles and find they are sensitive mechanoreceptors that respond to water movements. Responses from the tentacles project to the optic tectum, suggesting mechanosensory information about water movements is integrated with vision when the snakes hunt.

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